Page 1 of 4 Form PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE 023829-0220 To be determined **APPLICANTS** INFORMATION DISCLOSURE CITATION Arudi et al. **GROUP ART UNIT** FILING DATE To be determined (Use several sheets if necessary) To be determined **U.S. PATENT DOCUMENTS DOCUMENT** FILING DATE **EXAMINER** SUB-DATE NAME **REF CLASS** INITIAL IF NUMBER CLASS APPROPRIATE /AW/ **A1** 6,677,327 B1 01/13/2004 Gottemoller /AW/ **A2** 6,630,195 B1 10/07/2003 Muralidhara et al. /AW/ **A3** 6,599,556 B2 07/29/2003 Stark et al. . /AW/ Α4 2003/0124226 A1 07/03/2003 Tsukuda et al. /AW/ **A5** 2003/0091717 A1 05/15/2003 Porter et al. **FOREIGN PATENT DOCUMENTS** DOCUMENT TRANSLATION SUB-RFF DATE COUNTRY **CLASS** NUMBER **CLASS** YES NO /AW GB 1 540 376 02/14/1979 **Great Britain** A52 /AW/ 1 580 051 11/26/1980 **United Kingdom** A53 /AW/ WO 98/12209 A54 03/26/1998 PCT WO 02/100186 A2 /AW/ A55 12/19/2002 **PCT** /AW/ WO 03/092402 A1 11/13/2003 **PCT** A56 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) 7AW/ International Search Report for PCT/US01/43304 dated December 19, 2002 (2 pages). A57 Cheryan, "Mass Transfer Characteristics of Hollow Fiber Ultrafiltration of Soy Protein Systems," J. Food Proc. Eng., 1, pp. /AW/ A58 269-287 (1977). Gould et al., "A Practical Approach to Controlling the Fouling of Ultrafiltration Membranes: A Case Study of the Successful A59 Development of a Commercial Soy Protein Application," available @ http://www.osmonics.com/products/Page823.htm /AW/ (available at least by Dec. 3, 1999). Lawhon et al., "Processing Whey-Type By-Product Liquids from Cottonseed Protein Isolation with Ultrafiltration and Reverse /AW/ A60 Osmosis Membranes," J. Food Proc. Eng., 1, pp. 15-35 (1977). Lawhon et al., "Production of Protein Isolates and Concentrates from Oilseed Flour Extracts using Industrial Ultrafiltration A61 and Reverse Osmosis Systems," Journal of Food Science, 42, pp. 389-394 (1977). /AW/ Lawhon et al., "Optimization of Protein Isolate Production from Soy Flour Using Industrial Membrane Systems," Journal of /AW/ A62 Food Science, 43, pp. 361-369 (1978). Lawhon et al., "Alternate Processes for Use in Soy Protein Isolation by Industrial Ultrafiltration Membranes," Journal of Food /AW/ A63 Science, 44, pp. 213-219 (1979). Lawhon et al., "Soy Protein Ingreedients Prepared by New Processes-Aqueous Processing and Industrial Membrane A64 /AW/ Isolation," Journal of the American Oil Chemists' Society, 58, pp. 377-383 (Mar. 1981). Lawhon et al., "Production of Oil and Protein Food Products from Raw Peanuts by Aqueous Extraction and Ultrafiltration," A65 /AW/ Journal of Food Science, 46, pp. 391-395 (1981). /AW/ Lawhon et al., "Combining Aqueous Extraction and Membrane Isolation Techniques to Recover Protein and Oil from A66 Soybeans," Journal of Food Science, 46, pp. 912-916 (1981). **EXAMINER DATE CONSIDERED** 03/20/2007 /Anthony Weier/ (03/20/2007) EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Page 2 of 4 Form PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE 023829-0220 To be determined **APPLICANT** INFORMATION DISCLOSURE CITATION Arudi et al. FILING DATE **GROUP ART UNIT** (Use several sheets if necessary) To be determined To be determined **U.S. PATENT DOCUMENTS FILING DATE DOCUMENT EXAMINER** SUB-DATE NAME REF **CLASS** IF INITIAL NUMBER CLASS **APPROPRIATE** /AW/ **A6** 6,517,876 B2 02/11/2003 Tsukuda et al. **A7** 6,514,546 B2 02/04/2003 Tsukuda et al. **A8** 2002/0106440 A1 08/08/2002 Porter et al. Α9 2002/0106437 A1 08/08/2002 Karleskind et al. ·A10 2002/0102346 A1 08/01/2002 Stark et al. A11 5,760,182 06/02/1998 Adachi et al. A12 5,086,166 02/04/1992 Lawhon et al. 5,039,420 A13 08/13/1991 Klein et al. 5.000,848 03/19/1991 A14 Hodgins et al. 4,943,374 07/24/1990 A15 Heininger et al. 4,943,373 07/24/1990 Onishi et al. A16 4,906,379 03/06/1990 Hodgins et al. A17 4,897,465 01/30/1990 Cordle et al. A18 4,889,921 12/26/1989 Diosady et al. A19 A20 4,787,976 11/29/1988 Parham et al. 4,697,004 09/29/1987 Puski et al. A21 A22 4,624,805 11/25/1986 Lawhon 4,608,203 08/26/1986 Akasaka et al. A23 12/13/1983 A24 4,420,425 Lawhon 4,332,719 06/01/1982 Lawhon et al. A25 4,324,805 04/13/1982 Olsen A26 A27 4,293,571 10/06/1981 Olofsson et al. A28 4,256,652 03/17/1981 Kidani et al. 4,252,652 02/24/1981 A29 Elfert et al. 4,163,010 07/31/1979 Garbutt A30 4,147,745 04/03/1979 Sano et al. A31 4,125,527 11/14/1978 Buhler et al. A32 4,091,120 05/23/1978 A33 Goodnight, Jr. et al.

A34

A35

A36

7AW/

4,088,795

4,075,361

4,072,670

05/09/1978

02/21/1978

02/07/1978

Goodnight, Jr. et al.

Goodnight, Jr. et al.

Oberg

Page 3 of 4 Form PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE 023829-0220 To be determined **APPLICANT INFORMATION DISCLOSURE CITATION** Arudi et al. **GROUP ART UNIT FILING DATE** (Use several sheets if necessary) To be determined To be determined **U.S. PATENT DOCUMENTS FILING DATE DOCUMENT EXAMINER** SUB-DATE NAME **CLASS** REF IF INITIAL NUMBER **CLASS APPROPRIATE** /AW/ 4,069,103 01/17/1978 Müller A37 4,028,468 06/07/1977 A38 Hohner et al. 04/19/1977 A39 4,018,752 Bühler et al. 3,995,071 11/30/1976 Goodnight, Jr. et al. A40 3,993,636 11/23/1976 Maubois et al. A41 A42 3,962,292 06/08/1976 Szuhaj et al. 3,958,015 05/18/1976 A43 Gay Malaspina et al. **A44** 3.896,241 07/22/1975 3.880.755 04/29/1975 Thomas et al. A45 3,736,147 05/29/1973 lacobucci et al. A46 3,728,327 04/17/1973 Frazeur et al. A47 3,622,556 11/23/1971 O'Connor A48 A49 3,586,662 06/22/1971 O'Connor A50 3,291,614 12/13/1966 Tumerman et al. 2,445,948 07/27/1948 Wittcoff A51

Page 4 of 4

Form PTO-1	1449	U.S. DEPARTMENT OF COMMERCE	ATTORNEY DOCKET NO.	SERIAL NO.		
(MODIFIED)	)	PATENT AND TRADEMARK OFFICE	023829-0220	To be determined		
			APPLICANT			
INF	ORMAT	ION DISCLOSURE CITATION	Arudi et	al		
·			FILING DATE	GROUP ART UNIT		
	(Use s	everal sheets if necessary)	To be determined	To be determined		
		OTHER DOCUMENTS (Including A	Author, Title, Date, Pertinent Pages,	Etc.)		
/AW/	A67	Lawhon et al., "New Techniques in Membrane	Processing of Oilseeds," Food Technology	, <u>38</u> , pp. 97-106 (1984).		
	A68	Nichols et al., "Production of Soy Isolates by U 367-372 (1981).	Jitrafiltration: Factors Affecting Yield and Co	omposition," J. Food Sci., 46, pp.		
	A69	Ogino et al., "Interfacial Action of Natural Surf pp. 18-25 (September 1981).	actants in Oil/Water Systems," Journal of Colloid and Interface Science, 83,			
	A70	Okubo et al., "Preparation of Low-Phytate Soy pp. 263-271 (1975).	bean Protein Isolate and Concentrate by Ul	trafiltration," Cereal Chemistry, 52,		
	A71	Omosaiye et al., "Removal of Oligosaccharide (1978).	s from Soybean Water Extracts by Ultrafiltre	ation," <u>J. Food Sci., 43,</u> pp. 354-360		
	A72	Omosaiye et al., "Ultrafiltration of Soybean Wa 1027-1031 (1979).	ater Extracts: Processing Characteristics and	nd Yields," <u>J. Food Sci.,</u> 44, pp.		
	A73	Omosaiye et al., "Low-Phytate, Full-Fat Soy P Cereal Chem., 56, pp. 58-62 (1979).	rotein Product by Ultrafiltration of Aqueous	Extracts of Whole Soybeans,"		
	A74	Osmonics, "Osmonics® Ultrafilic ® M-Series I http://www.osmonics.com/scripts/PressTmpl.a		available @		
	A75	Osmonics, "UltraFilic Membranes," available (15, 2000).	@ http://www.osmonics.com/products/Page	918.htm (available at least by Nov.		
	A76	Porter et al., "Membrane ultrafiltration," Chem	<u>. Tech.,</u> pp. 56-63 (Jan. 1971).			
	. A77	S. K. Sayed Razavi, J. L. Harris, F. Sherkat, " of soy flour," Journal Of Membrane Science, 1	Fouling and cleaning of membranes in the u 14 (1996), pp. 93-104.	iltrafiltration of the aqueous extract		
V	A78	Torok, "The Filtration Spectrum," available @ News" on May 1, 1994).	http://www.osmonics.com/products/Page71	0.htm (Published in "Filtration		
/AW/	A79	United Soybean Board, "Soy Protein Isolate" a 2000).	available @ http://www.talksoy.com/isolate.l	ntm (available at least by Sept. 6,		

Substitute for form 1449A/PTO (modified	Substitute !	for form	1449A/P1	CO (modifie
---	--------------	----------	----------	-------------

JUL 2 5 2005

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

SUse as many sheets as necessary)

Page 1 of 1

<b>Application Number</b>	10/814434
Filing Date	March 31, 2004
First Named Inventor	Arudi, Ravindra L
Art Unit	1761
Examiner Name	
Attorney Case Number	023829-0220 (CGL03/0182US01)

RAL	ENSP			U.S. Patent	Documents	
Exam.	Cite		Document Number	Publication Date or Issue Date	Name of Patentee	Pages, Columns, Lines, Where
Init.*	Init.* No.	Doc. N	umber-(Kind Code if Known)	MM-DD-YYYY	or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
/AW	A1	US-	2003/0124226A1	07-03-2003	Tsukuda et al.	
/AW/	A2	us-	3,988,511	10/26/1976	Schapiro	
	А3	US-				
	A4	US-				
	<b>A</b> 5	US-				
	A6	US-				
	A7	US-				
	A8	US-				

		-	F	oreign Patent	Documents		
Exam. Cite		Ford	eign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	Translation
Init.*	No.	Ctry. Code	Number-KindCode (ff known)		Applicant of Cited Document	or Relevant Figures Appear	(Check if yes)
	B1						
	B2						
	В3						
	B4						
	B5						
	В6						
	В7						

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/AW/	C1	XP-002331682; Database WPI Section Ch, Week 198533, Derwent Publications
	C2	
	СЗ	

*Examiner:	/Anthony Weier/ (03/20/2007)	Date Considered:	03/20/2007	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Wider the Paperwood Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				Complete if Known				
	INFORMATIO	N DISCLO	SURE	Application Number	10/814,434			
	STATEMENT	BY APPLI	CANT	Filing Date	03/31/2004			
	Date Submitte	d. March 3	2005	First Named Inventor	Ravindra L. Arudi			
	Date Submitte	u. Maich 3,	, 2003	Group Art Unit	To Be Determined			
	(use as many sh	eets as ned	cessary)	Examiner Name	To Be Determined			
Sheet	1	of	2	Attorney Docket Number	CGL03/0182US1			

		U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	U.S. Patent D	Kind Code <sup>2</sup> (if	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
:/AW/-	A1	2004/0219281	A1	Porter et al.	11-04-2004				
<b>1</b>	A2	2004/0131747	†A1	Porter et al.	07-08-2004				
	A3	2004/0071858	† A1	Nijhuis et al.	04-15-2004				
- <b>- 1</b>	A4	2004/0043127	1 A1	Monagle et al.	03-04-2004				
	A5	2004/0016288	A1	Nikolskaya	01-29-2004				
	A6	2003/0232121	A1.	Monagle et al.	12-18-2003	<del></del>			
	A7	2003/0211225	i A1	Singh	11-13-2003				
	A8	2003/0190401	A1	Singh	10-09-2003	<del></del>			
	A9	2003/0059514	A1	Villagran et al.	03-27-2003				
	A10	2003/0054087	A1	Monagle et al.	03-20-2003				
	A11	2003/0045689	A1	Monagle et al.	03-06-2003				
	A12	2003/0031768	† A1	Dalziel et al.	02-13-2003				
<b> </b>	A13	2002/0197384	A1	Singh	12-26-2002				
	A14	2002/0114877	A1	Stark et al.	08-22-2002				
	A15	2002/0098276	A1	Porter et al.	07-25-2002				
	A16	2002/0039619	A1	Monagle	04-04-2002				
	A17	6,841,184	B2	Porter et al.	01-11-2005				
	A18	6,830,773	B2	Porter et al.	12-14-2004				
	A19	6,777,017	B2	Porter et al.	08-17-2004				
	A20	6,720,020	B2	Karleskind et al.	04-13-2004				
	A21	6,716,469	B2	Stark et al.	04-06-2004				
	A22	6,610,343	B2	Purtle et al.	08-26-2003				
	A23	6,471,981	B2	Hahn	10-29-2002				
	A24	6,361,814	B2	Purtle et al.	03-26-2002				
	A25	6,313,273	B1	Thomas et al.	11-06-2001				
	A26	6,261,565	B1	Empie et al.	07-17-2001				
	A27	6,241,996	B1	Hahn	06-05-2001	,			
	A28	6,066,350		Purtle et al.	05-23-2000				
	A29	6,015,785	1	Shen et al.	01-18-2000				
	A30	5,858,449		Crank et al.	01-12-1999				
	A31	5,763,389		Shen et al.	06-09-1998				
	A32	5,753,296		Girsh	05-19-1998				
	A33	5,676,987		Lai	10-14-1997				
	A34	5,362,425		Schrier	11-08-1994				
	A35	5,338,554		Vogt et al.	08-16-1994				
	A36	5,114,730	Ī	Ellis	05-19-1992				
		4,164,594	1	Jackson et al.	08-14-1979				
	A38	3,987,138		Hege	10-19-1976				
	A39	3,560,218		Whelan	02-02-1971				
/AW/	A40	3,053,663	!	Donahue	09-11-1962				

## 001.1782001.1

Examiner Signature	:	/Anthony Weier/ (03/20/2007)	Date Considered	03/20/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

Substitute for form 1449B/PTO					Complete if Known				
	INFORMATION	ON DISCL	OSURE	Application Number	10/814,434				
Date Submitted: March 3, 2005  (use as many sheets as necessary)				Filing Date	03/31/2004				
				First Named Inventor	Ravindra L. Arudi				
				Group Art Unit	To Be Determined				
				Examiner Name	To Be Determined				
Sheet	2	of	2	Attorney Docket Number	CGL03/0182US1				

			<u> </u>	F	DREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No.1	Fo Office	oreign Patent Documer  Number <sup>4</sup> Kind C	Code <sup>5</sup>	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
/AW/	A41	BE	BE 775206		Schapiro	05-10-1972		
	A42	CA	CA 1,219,764		Ho et al.	03-31-1987		$\mathbb{I}$
	A43	DE	DE 39 01 056	A1	Vogt et al.	07-19-1990		
	A44	DE	DE 1 934 649	Α	Draiswerke GMbh	01-14-1971		
	A45	EP	EP 0 379 023	A1	Vogt et al.	07-25-1990		
	A46	EP	EP 0 252 760	B1	Mitsuhashi et al.	01-13-1988		T
	A47	FR	FR 1 274 872		Corn Products Company	10-27-1961		
	A48	GB	GB 1,177,860		Whelan	01-14-1970		
	A49	JP	JP 2000-342183	1	Kimura et al.	12-12-2000		1
	A50	JP	JP 2000-125767	1	Inoue et al.	05-09-2000		$\top$
	A51	JP	JP 9-275905	1	Ito et al.	10-28-1997		1
	A52	JP	JP 7-87893	1	Aizawa et al.	04-04-1995		
	A53	JP	JP 7-87892	1	Aizawa et al.	04-04-1995		$\top$
	A54	JP	JP 5-15349	1	Hayasaka et al.	01-26-1993		1
	A55	JP	JP 3-155748	1	Inoue	07-03-1991		$\top$
	A56	JР	JP 62-272941	1	Morishima	11-27-1987		1
	A57	JP	JP 62-126966		Saito et al.	06-09-1987		$\top$
	A58	JP	JP 62-104554	1	Nakazato et al.	05-15-1987		$\top$
	A59	JP	JP 59-91845	1	Nakayama et al.	05-26-1984		$\top$
	A60	JP	JP 58-146238	1	Morishima	08-31-1983		$\top$
	A61	JP	JP 54-157880	1	Okumura	12-13-1979		$\top$
	A62	JP	JP 53-066473		Hara et al.	06-13-1978		1
	A63	SU	210300	1	Gekker et al.	04-03-1968		7
	A64	wo	WO 2004/16288	A1	Dalziel et al.	02-26-2004		Ť
/AW/	A65	WO	WO 96/34535	A1	Dolan et al.	11-07-1996		+
-				1		1	<u> </u>	$\top$
				<b>—</b>				$\top$

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>			
	,					

## 001.1782001.1

Examiner Signature	/Anthony Weier/ (03/20/2007)	Date Considered	03/20/2007
Signature		Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Stetement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.